

FIG. 1

CONVENTIONAL ART

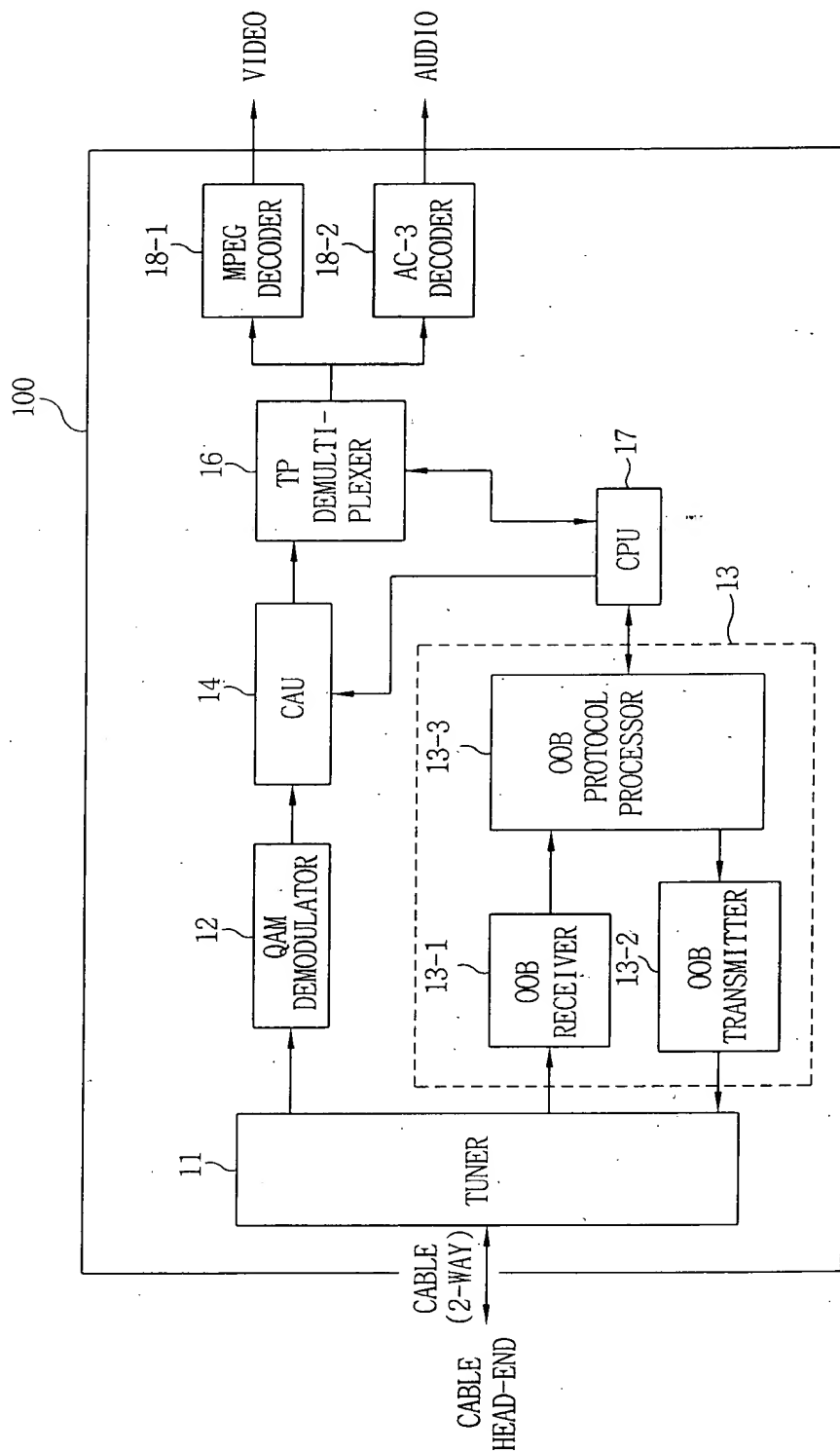


FIG. 2
CONVENTIONAL ART

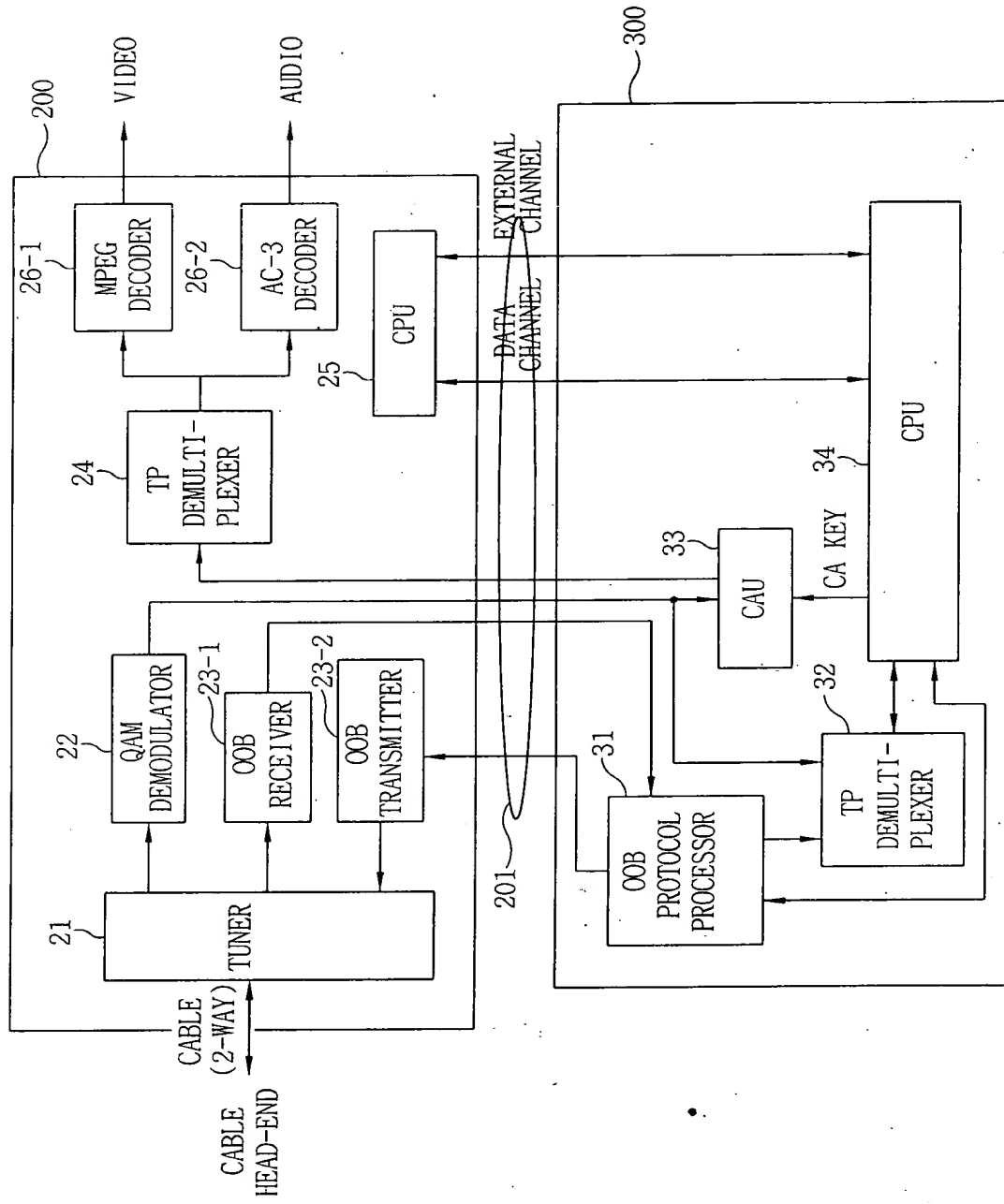
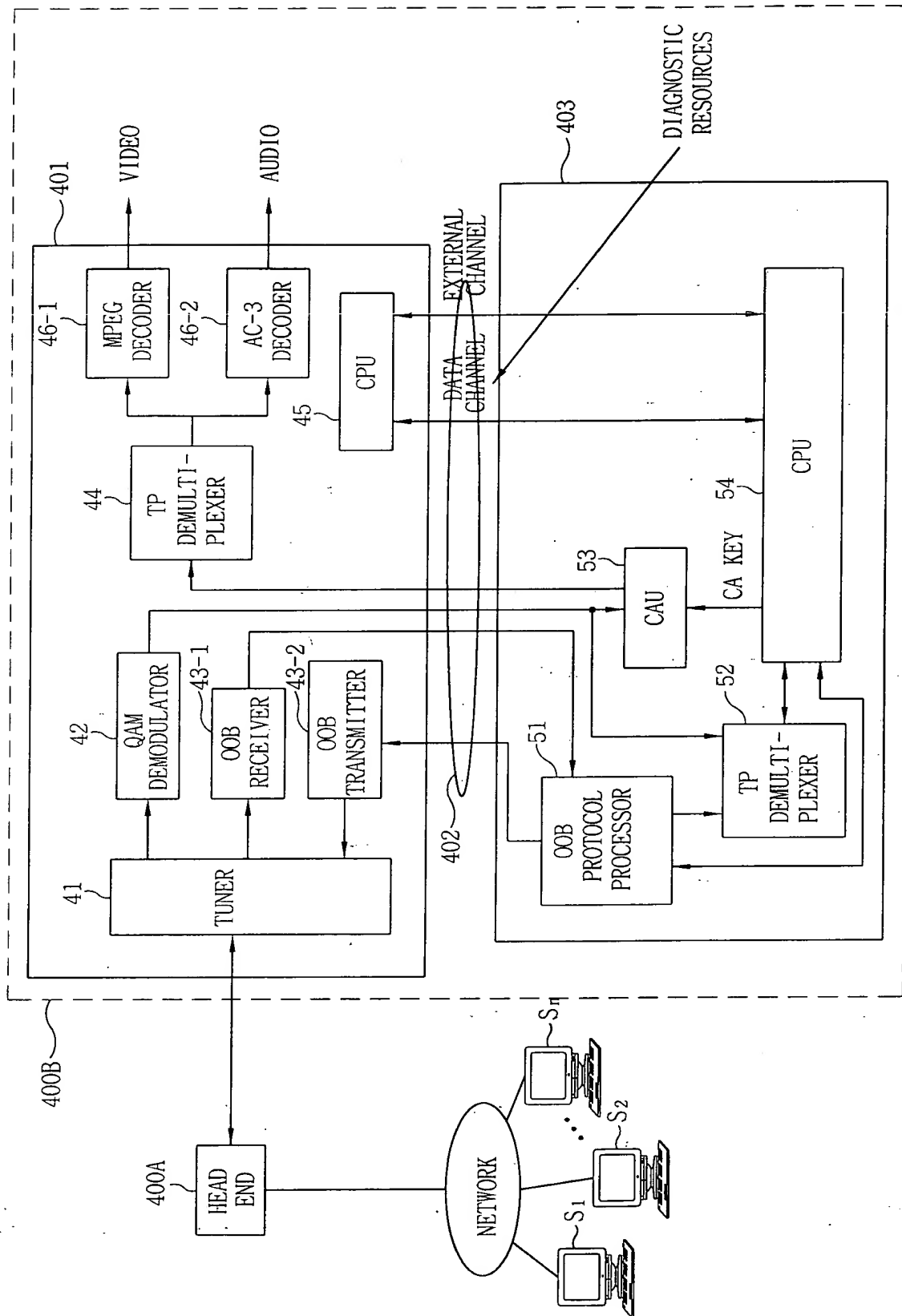


FIG.3
CONVENTIONAL ART

APPLICATION			
RESOURCES:			
USER INTERFACE	LOW-SPEED COMMUNICATIONS	SYSTEM	OPTIONAL EXTENSIONS
SESSION LAYER			
GENERIC TRANSPORT SUBLAYER			
PC CARD TRANSPORT SUBLAYER			
PC CARD LINK LAYER			
PC CARD PHYSICAL LAYER			

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FIG. 4



[illegible]

Figure 6. The effect of the number of iterations (n) on the accuracy of the proposed algorithm. The results are shown for different values of α and β . The x-axis represents the number of iterations (n), ranging from 0 to 100. The y-axis represents the error, ranging from 0 to 1. The legend indicates four cases: $(\alpha=0.9, \beta=0.8)$, $(\alpha=0.9, \beta=0.7)$, $(\alpha=0.9, \beta=0.6)$, and $(\alpha=0.9, \beta=0.5)$.

[illegible]

FIG.6B

Datatype_id	id VALUE	LENGTH (BYTES)
Manufacturer_id	0x01	50(Max)
Brand_id	0x02	50(Max)
Model_id	0x03	20(Max)
Serial_id	0x04	20(Max)
Host_id	0x05	8
POD_module_id	0x06	8

FIG.6C

Sub_system	id VALUE(HEXA)
CableNIM tuning sub_system	0x01
TP demultiplexing sub_system	0x02
Video decoding sub_system	0x03
Audio decoding sub_system	0x04
Graphics sub_system	0x05
Copy protection sub_system	0x06

FIG.7

Syntax	NO. OF BITS
<pre> Diag_stat_req() { Diag_stat_req_tag Length_field() = 0 } </pre>	24

FIG.8

Syntax	NO. OF BITS	DESCRIPTION
<pre> Diag_stat_cnf() { Diag_stat_cnf_tag Length_field() System_status } </pre>	<p>24</p> <p>8</p>	<p>REPLY WHETHER SET-TOP IS NOMAL OR NOT</p> <p>0x00: OK</p> <p>0x01: Not OK</p>

FIG.9

Syntax	NO. OF BITS
<pre> Diag_data_req() { Diag_data_req_tag Length_field() = 0 } </pre>	<p>24</p>

FIG. 10A

Syntax	NO. OF BITS	DESCRIPTION
<pre> Diag_data_cnf() { Diag_data_cnf_tag Length_field() Sub_system_number For(I=0; I<Sub_system_number;I++) { Sub_system_id Sub_system_status } } </pre>	<p>24</p> <p>8</p> <p>8</p> <p>8</p>	<p>NUMBER OF SUBSYSTEM INCLUDING SET-TOP BOX</p> <p>REPLY WHETHER SET-TOP IS NOMAL OR NOT</p>

FIG. 10B

Sub_system	id VALUE(HEXA)	DESCRIPTION
CableNIM tuning sub_system	<p>0x00</p> <p>0x01</p> <p>0x02</p> <p>0x03</p>	<p>OK</p> <p>In-band tuning not working</p> <p>OOB Rx tuning not working</p> <p>OOB Tx tuning not working</p>
TP demultiplexing sub_system
...

FIG. 11

